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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/943,123

DATE: 09/18/2001  
TIME: 14:54:18

Input Set : A:\16153-8007.txt  
Output Set: N:\CRF3\09182001\I943123.raw

3 <110> APPLICANT: CHANG, Y-H  
4 VETRO, J.A.  
5 MICKA, W.S.  
7 <120> TITLE OF INVENTION: Dominant Negative Variants of Methionine Aminopeptidase  
8 2 ("MetAP2") and Clinical Uses Therefor  
10 <130> FILE REFERENCE: 16153-8007  
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/943,123  
C--> 13 <141> CURRENT FILING DATE: 2001-08-30  
15 <160> NUMBER OF SEQ ID NOS: 26  
17 <170> SOFTWARE: PatentIn Ver. 2.0  
19 <210> SEQ ID NO: 1  
20 <211> LENGTH: 71  
21 <212> TYPE: PRT  
22 <213> ORGANISM: Human polylysine  
24 <400> SEQUENCE: 1  
25 Lys Lys Lys Arg Arg Lys Lys Lys Ser Lys Gly Pro Ser Ala Ala  
26 1 5 10 15  
28 Gly Glu Gln Glu Pro Asp Lys Glu Ser Gly Ala Ser Val Asp Glu Val  
29 20 25 30  
31 Ala Arg Gln Leu Glu Arg Ser Ala Leu Glu Asp Lys Glu Arg Asp Glu,  
32 35 40 45  
34 Asp Asp Glu Asp Gly Asp Gly Asp Gly Ala Thr Gly Lys Lys  
35 50 55 60  
37 Lys Lys Lys Lys Lys Lys  
38 65 70  
41 <210> SEQ ID NO: 2  
42 <211> LENGTH: 71  
43 <212> TYPE: PRT  
44 <213> ORGANISM: Mouse polylysine  
46 <400> SEQUENCE: 2  
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48 1 5 10 15  
50 Val Gln Gln Glu Leu Asp Lys Glu Ser Gly Ala Leu Val Asp Glu Val  
51 20 25 30  
53 Ala Lys Gln Leu Glu Ser Gln Ala Leu Glu Glu Lys Glu Arg Asp Asp  
54 35 40 45  
56 Asp Asp Glu Asp Gly Asp Gly Asp Ala Asp Gly Ala Thr Gly Lys Lys  
57 50 55 60  
59 Lys Lys Lys Lys Lys Lys  
60 65 70  
63 <210> SEQ ID NO: 3  
64 <211> LENGTH: 57  
65 <212> TYPE: PRT  
66 <213> ORGANISM: Saccharomyces polylysine  
68 <400> SEQUENCE: 3  
69 Thr Asp Ala Glu Ile Glu Asn Ser Pro Ala Ser Asp Leu Lys Glu Leu  
70 1 5 10 15

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72 Asn Leu Glu Asn Glu Gly Val Glu Gln Gln Asp Gln Ala Lys Ala Asp  
73 20 25 30  
75 Glu Ser Asp Pro Val Glu Ser Lys Lys Lys Lys Asn Lys Lys Lys  
76 35 40 45  
78 Lys Lys Lys Ser Asn Val Lys Lys Ile  
79 50 55  
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83 <211> LENGTH: 35  
84 <212> TYPE: DNA  
85 <213> ORGANISM: Synthetic oligonucleotide  
87 <400> SEQUENCE: 4  
88 caaccattgt gctgcagctt tcacacccaa tgca 35  
90 <210> SEQ ID NO: 5  
91 <211> LENGTH: 35  
92 <212> TYPE: DNA  
93 <213> ORGANISM: Artificial Sequence  
95 <220> FEATURE:  
96 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
97 oligonucleotide  
99 <400> SEQUENCE: 5  
100 ctgcattggg tgtgaaagct gcagcacaat ggttg 35  
102 <210> SEQ ID NO: 6  
103 <211> LENGTH: 478  
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105 <213> ORGANISM: Human dnvMetAP2  
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109 <222> LOCATION: (219)  
110 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
112 <220> FEATURE:  
113 <221> NAME/KEY: SITE  
114 <222> LOCATION: (231)  
115 <223> OTHER INFORMATION: May be any amino acid, except His  
117 <220> FEATURE:  
118 <221> NAME/KEY: SITE  
119 <222> LOCATION: (251)  
120 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
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123 <221> NAME/KEY: SITE  
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125 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
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129 <222> LOCATION: (328)  
130 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
132 <220> FEATURE:  
133 <221> NAME/KEY: SITE  
134 <222> LOCATION: (331)  
135 <223> OTHER INFORMATION: May be any naturally occurring amino acid

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137 <220> FEATURE:  
138 <221> NAME/KEY: SITE  
139 <222> LOCATION: (338)..(339)  
140 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
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143 <221> NAME/KEY: SITE  
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150 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
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153 <221> NAME/KEY: SITE  
154 <222> LOCATION: (447)  
155 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
157 <220> FEATURE:  
158 <221> NAME/KEY: SITE  
159 <222> LOCATION: (459)  
160 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
162 <400> SEQUENCE: 6  
163 Met Ala Gly Val Glu Glu Val Ala Ala Ser Gly Ser His Leu Asn Gly  
164 1 5 10 15  
165 Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly Ala Ala Ser Thr Ala Glu  
166 20 25 30  
167 Glu Ala Ala Lys Lys Arg Arg Lys Lys Lys Ser Lys Gly Pro  
168 35 40 45  
169 Ser Ala Ala Gly Glu Gln Glu Pro Asp Lys Glu Ser Gly Ala Ser Val  
170 50 55 60  
171 Asp Glu Val Ala Arg Gln Leu Glu Arg Ser Ala Leu Glu Asp Lys Glu  
172 65 70 75 80  
173 Arg Asp Glu Asp Asp Glu Asp Gly Asp Gly Asp Gly Ala Thr  
174 85 90 95  
175 Gly Lys Lys Lys Lys Lys Lys Lys Arg Gly Pro Lys Val Gln  
176 100 105 110  
177 Thr Asp Pro Pro Ser Val Pro Ile Cys Asp Leu Tyr Pro Asn Gly Val  
178 115 120 125  
179 Phe Pro Lys Gly Gln Glu Cys Glu Tyr Pro Pro Thr Gln Asp Gly Arg  
180 130 135 140  
181 Thr Ala Ala Trp Arg Thr Thr Ser Glu Glu Lys Lys Ala Leu Asp Gln  
182 145 150 155 160  
183 Ala Ser Glu Glu Ile Trp Asn Asp Phe Arg Glu Ala Ala Glu Ala His  
184 165 170 175  
185 Arg Gln Val Arg Lys Tyr Val Met Ser Trp Ile Lys Pro Gly Met Thr  
186 180 185 190  
187 Met Ile Glu Ile Cys Glu Lys Leu Glu Asp Cys Ser Arg Lys Leu Ile  
188 195 200 205  
189 Lys Glu Asn Gly Leu Asn Ala Gly Leu Ala ~~Xaa~~ Pro Thr Gly Cys Ser  
190 210 215 220  
W--> 202 Lys Glu Asn Gly Leu Asn Ala Gly Leu Ala ~~Xaa~~ Pro Thr Gly Cys Ser  
203 210 215 220

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Input Set : A:\16153-8007.txt  
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W--> 205 Leu Asn Asn Cys Ala Ala Xaa Tyr Thr Pro Asn Ala Gly Asp Thr Thr  
206 225 230 235 240  
W--> 208 Val Leu Gln Tyr Asp Asp Ile Cys Lys Ile Xaa Phe Gly Thr His Ile  
209 245 250 255  
W--> 211 Ser Gly Arg Ile Ile Xaa Cys Ala Phe Thr Val Thr Phe Asn Pro Lys  
212 260 265 270  
214 Tyr Asp Thr Leu Leu Lys Ala Val Lys Asp Ala Thr Asn Thr Gly Ile  
215 275 280 285  
217 Lys Cys Ala Gly Ile Asp Val Arg Leu Cys Asp Val Gly Glu Ala Ile  
218 290 295 300  
220 Gln Glu Val Met Glu Ser Tyr Glu Val Glu Ile Asp Gly Lys Thr Tyr  
221 305 310 315 320  
W--> 223 Gln Val Lys Pro Ile Arg Asn Xaa Asn Gly Xaa Ser Ile Gly Gln Tyr  
224 325 330 335  
W--> 226 Arg Xaa Xaa Ala Gly Lys Thr Val Pro Ile Val Lys Gly Glu Ala  
227 340 345 350  
W--> 229 Thr Arg Met Glu Glu Gly Glu Val Tyr Ala Ile Xaa Thr Phe Gly Ser  
230 355 360 365  
232 Thr Gly Lys Gly Val Val His Asp Asp Met Glu Cys Ser His Tyr Met  
233 370 375 380  
235 Lys Asn Phe Asp Val Gly His Val Pro Ile Arg Leu Pro Arg Thr Lys  
236 385 390 395 400  
238 His Leu Leu Asn Val Ile Asn Glu Asn Phe Gly Thr Leu Ala Phe Cys  
239 405 410 415  
241 Arg Arg Trp Leu Asp Arg Leu Gly Glu Ser Lys Tyr Leu Met Ala Leu  
242 420 425 430  
W--> 244 Lys Asn Leu Cys Asp Leu Gly Ile Val Asp Pro Xaa Pro Pro Xaa Cys  
245 435 440 445  
W--> 247 Asp Ile Lys Gly Ser Tyr Thr Ala Gln Phe Xaa His Thr Ile Leu Leu  
248 450 455 460 465 470 475  
250 Arg Pro Thr Cys Lys Glu Val Val Ser Arg Gly Asp Asp Tyr  
251 465 470 475  
254 <210> SEQ ID NO: 7  
255 <211> LENGTH: 478  
256 <212> TYPE: PRT  
257 <213> ORGANISM: Mouse MetAP2  
259 <220> FEATURE:  
260 <221> NAME/KEY: SITE  
261 <222> LOCATION: (219)  
262 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
264 <220> FEATURE:  
265 <221> NAME/KEY: SITE  
266 <222> LOCATION: (231)  
267 <223> OTHER INFORMATION: May be any amino acid, except His  
269 <220> FEATURE:  
270 <221> NAME/KEY: SITE  
271 <222> LOCATION: (251)  
272 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
274 <220> FEATURE:

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Input Set : A:\16153-8007.txt

Output Set: N:\CRF3\09182001\I943123.raw

275 <221> NAME/KEY: SITE  
 276 <222> LOCATION: (262)  
 277 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
 279 <220> FEATURE:  
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 281 <222> LOCATION: (328)  
 282 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
 284 <220> FEATURE:  
 285 <221> NAME/KEY: SITE  
 286 <222> LOCATION: (331)  
 287 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
 289 <220> FEATURE:  
 290 <221> NAME/KEY: SITE  
 291 <222> LOCATION: (338)..(339)  
 292 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
 294 <220> FEATURE:  
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 296 <222> LOCATION: (364)  
 297 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
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 300 <221> NAME/KEY: SITE  
 301 <222> LOCATION: (444)  
 302 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
 304 <220> FEATURE:  
 305 <221> NAME/KEY: SITE  
 306 <222> LOCATION: (447)  
 307 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
 309 <220> FEATURE:  
 310 <221> NAME/KEY: SITE  
 311 <222> LOCATION: (459)  
 312 <223> OTHER INFORMATION: May be any naturally occurring amino acid  
 314 <400> SEQUENCE: 7  
 315 Met Ala Gly Val Glu Gln Ala Ala Ser Phe Gly Gly His Leu Asn Gly  
 316 1 5 10 15  
 318 Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly Thr Ser Ser Thr Ala Glu  
 319 20 25 30  
 321 Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys Lys Lys Gly Lys Gly Ala  
 322 35 40 45  
 324 Val Ser Ala Val Gln Gln Glu Leu Asp Lys Glu Ser Gly Ala Leu Val  
 325 50 55 60  
 327 Asp Glu Val Ala Lys Gln Leu Glu Ser Gln Ala Leu Glu Glu Lys Glu  
 328 65 70 75 80  
 330 Arg Asp Asp Asp Asp Glu Asp Gly Asp Gly Asp Ala Asp Gly Ala Thr  
 331 85 90 95  
 333 Gly Lys Lys Lys Lys Lys Lys Lys Lys Arg Gly Pro Lys Val Gln  
 334 100 105 110  
 336 Thr Asp Pro Pro Ser Val Pro Ile Cys Asp Leu Tyr Pro Asn Gly Val  
 337 115 120 125  
 339 Phe Pro Lys Gly Gln Glu Cys Glu Tyr Pro Pro Thr Gln Asp Gly Arg

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/943,123

DATE: 09/18/2001  
TIME: 14:54:19

Input Set : A:\16153-8007.txt  
Output Set: N:\CRF3\09182001\I943123.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:1062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18